



Operations Manual

Vastex Screen Drying Cabinet

Model VDC-253624



Electrical Drawing # 02-08-_____

Machine Serial # VTX-00_____

This manual includes the following documents.

- 01-14-006 Operations and Maintenance
- 01-00-005 Warranty
- 01-00-006 Warranty Summary
- 01-00-015 Terms and Conditions

Vastex Drying Cabinet

Doc. # 01-14-006

**MODELS VDC-253624 (240 Volts)
Maximum Screen Size 25 x 36**

Notice:

Inspect all packages while unpacking and notify the shipping company if any damages are detected. Your new drying cabinet was assembled and tested at the factory.

Safety Instructions for the VASTEX Screen Drying Cabinet

The Instruction Manual and Safety Instructions must be read and understood by anyone operating the Vastex Screen Drying Cabinet.

- The operator should read and understand the instruction manual before operating this equipment. Store instruction manual and safety instructions near equipment for easy access to operators.
- VASTEX Screen Drying Cabinet is intended for the drying of emulsion on screen printing screens. Do not use for any other purpose unless authorized by Vastex International, Inc. Use of this equipment for any other purpose can be dangerous and may cause damage to this equipment voiding the warranty.
- It is recommended that the area around this equipment be designated as a work area and only authorized employees are allowed in this area.
- Children and pets must be kept clear from the work area.
- Never leave equipment unattended.
- DO NOT operate dry cabinet with any cover or guard removed.
- Operator must be familiar with controls of the dryer.
- Before starting production, the operator must check that all covers and guards are in place, no material has been left in the cabinet, and exhaust duct is clear of any obstructions.
- Always turn off power at the main disconnect at the end of production.
- Do Not remove any cover or guard until power at the main disconnect is switched off and locked out. No unauthorized persons are to be allowed inside the control boxes.
- Turn off and lock out power at the main disconnect before cleaning and maintenance.
- Only qualified technicians should be allowed to make repairs on the VASTEX Screen Drying Cabinet.

Operation and Maintenance Manual

Doc. # 01-14-006

I Electrical requirements:

1. A dedicated 240 volt grounded outlet is required. The drying cabinet will draw approximately 16 amps total at 240 volts.

II Assembly

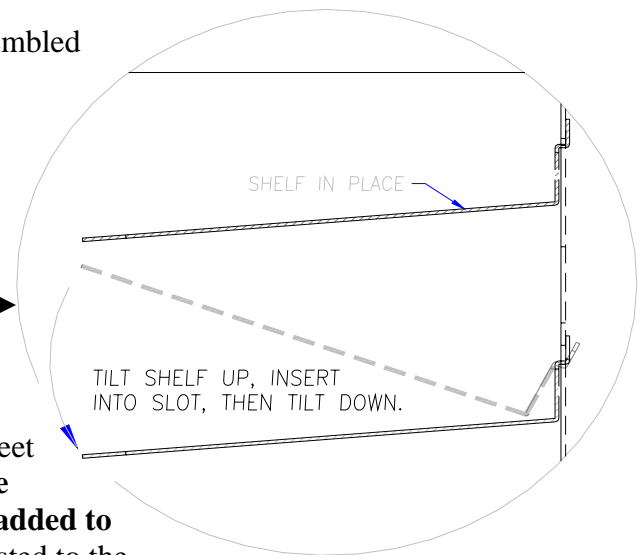
1. Unpack your drying cabinet and remove the lag screws holding it down to the skid. Open the door and remove the wrapped shelves and any other items.
2. Carefully slide dry cabinet to edge of shipping pallet allowing access to bottom caster mounting bracket. Install two casters, carefully rotate cabinet on pallet to allow access to attach two remaining casters. Cabinet can now be moved off pallet and onto casters.
3. Clean the inside thoroughly, first vacuuming then wiping down with a damp cloth. This should be repeated several times after turning on the unit to allow any trapped dust to be removed.

Debris left in the chamber can contaminate screens and cause the image area to develop pinholes.

4. The drying cabinet was shipped fully assembled with the exception of:
 - (48) Shelves
 - (1) 4" Duct Elbow
 - (4) Caster Wheels

5. Unwrap the shelves, wipe clean, and install as shown here.

6. It is recommended that the exhaust be ducted outside, to remove fumes and moisture from the work environment. Do not exceed (1) elbow (90 deg.), and/or 8 feet of straight duct. **In the event this must be exceeded, a duct fan (booster) must be added to ensure proper airflow.** If it is not exhausted to the outside, make sure the elbow provided is used and pointed to the ground to restrict light from entering the cabinet.



III Controls

1. A **breaker/switch** is used to turn the machine on and off. In the event of a short or electrical failure the switch will trip into the middle position. If the breaker will not reset or trips often contact Vastex tech support or a licensed electrician.
2. A **red pilot light** is located above the breaker/switch, when illuminated it indicates the switch is in the “on” position and there is power to the unit.
3. The **heater switch** turns on the controller allowing operation of heating elements.

IV Temperature Controller

1. Function:

Tempco 1/32 din Microprocessor Based Auto Tune PID Controller is used in this cabinet. The front of the control has a digital readout. The “Process Value”, is the actual temperature at the sensor, and is normally displayed. The “Set Point” (SP1) is the temperature you set in the cabinet. Temperature values are displayed in Fahrenheit degrees. There are three buttons on the control unit. Two are up and down arrows and one to the left is the scroll button. The controller has been Auto Tuned at the factory. All that is needed is to enter the Set Value and you are ready to go. A red light (OUT[^]) illuminates when controller is calling for heat (output on).

2. How to Set the Temperature:

With the power, press the scroll button (1) time. The display will show SP1. Press the up or down button to select desired operating temperature. Press scroll button (4) additional times. This will enter setting and return to process temperature value at the home display. You will be able to see the temperature rise. Allow approximately 15 minute for heat up. The red light on the controller (out) will light up, indicating the output is on and calling for heat. As the temperature at the sensor approaches the set point, the controller starts to cycle off and on to slow its rise. The first couple of times the controller is used it may overshoot the set point while it is learning the characteristics of the heater. The controller teaches itself how to respond to the heaters.

3. Auto Tuning:

Auto Tuning should be used if any of the following problems are encountered. After installing a new controller, process values are drifting, excessively long heat up times, or differences between process and set point values. Use the following procedure for Auto Tuning. Set the Set point Value to 90 degrees. Press scroll button (3) times. Display will show A-T. Next press and hold scroll key for 5 seconds, A-T display will now be flashing. Auto Tuning is now activated. Press scroll key (1) additional time to return to home display. Process value temperature will be flashing for 45 minutes during Auto Tuning. When the process value stops flashing Auto Tuning is complete

4. Manual Operation of Controller:

Press scroll button (2) times. Display will show the letter H and three flashing numbers. Press and hold scroll key for (5) seconds, H and numbers will now be blinking. Press the up or down arrow to set percentage of time the heater will cycle on and off. (ie. setting of 80.0 will cycle heater on 80% of time and off 20%). Controller can remain in this mode while resuming production. Replace Malfunctioning “J” Sensor and proceed with Auto Tuning.

Controller error messages

SbEr Input sensor break, replace “J” sensor

AtEr Failed to perform auto tuning function.

V Operation

1. Before operating your machine, make sure the inside is thoroughly clean and dust free. Refer to the assembly section for cleaning recommendations. **Never** operate the dry cabinet with dirty or missing inlet filters.
2. Once the machine is clean, insert the screens mesh-side (shirt-side) down onto the shelves. Screens should be free of dripping emulsion or water. Close and latch the door.
3. Turn on the main power switch, indicator light above switch will now be illuminated and the blower will now be running. The cabinet can be operated with heater and blower or blower only. Cabinet cannot be operated with only heat.
4. Turn on the heater switch. The light above the heater switch, control output light and controller will be illuminated. Set controller to desired operating temperature. The unit is designed to keep the internal temperature at 90- 95° F. It will take as little as 20 minutes to dry a coated screen at this temperature. Actual drying time will depend on your shop humidity, room temperature and / or thickness of coating on screens. Approximate heat up time for cabinet is 10 minutes.
5. Once the screens are dry, turn the machine off, you can store the screens in the cabinet until needed.

VI Maintenance

There are a few things that need to be maintained on a regular basis. These checks should be done as often as needed, but these are the recommended periods between regular cleanings.

1. Every week, the filter intake should be checked and cleaned as needed. The filter should be replaced as necessary, once it becomes too clogged to use effectively.
2. At least twice a month, the inside of the cabinet should be checked and cleaned to clear it of any debris.

Vastex Warranty

Doc#01-00-005 Revised 08/18/2005

Vastex, hereinafter referred to as "seller" warrants only to its original "purchaser", who holds a copy of the original invoice and is the original end user of the equipment in question, its new equipment against defects in workmanship on a pro-rated basis for a period of three (3) years from the date of shipment to buyer and receipt of payment in full. Infrared heaters installed by Vastex in a new dryer will be covered for a period of (10) years. Replacement parts are covered for a period of (1) year from ship date contingent on payment in full, with the exception of replacement infrared heaters, which have a (3) year warranty. Rubber blankets, light bulbs and glass on exposure units are particularly subject to wear while in use. Wear is not covered by this warranty but as stated above only manufacturers defects are covered. All sales made through Vastex dealers must be certified by that dealer before a warranted replacement is issued.

This warranty is expressly contingent upon the buyer delivering to seller, at the address below, with all transportation charges prepaid, the part or parts claimed to be defective within the above mentioned period (3) years for new equipment, (10) years on the heaters and (1) year for replacement parts, with the exception of replacement infrared heaters, which have a (3) year warranty. If the machine in question is less than a year old, it will be shipped to the customer at no charge, with an RGA issued by Vastex for the defective part. The defective part must be shipped back to Vastex freight prepaid within 30 days or the account will be billed. If the equipment is more than a year old, the part will be shipped after we receive the defective part. If it's necessary to expedite the movement of parts and to minimize down time to the buyer, the replacement part shall be supplied on a C.O.D. basis. If testing and analysis of said part by the seller or its supplier discloses that said part is defective, the cost of said part will be refunded to the buyer on a pro-rated basis.

Except as otherwise provided herein, the equipment is being sold "as-is". Final determination of the suitability of the equipment for the use contemplated by the buyer, is the sole responsibility of buyer, and seller shall have no responsibility in connection with the suitability.

All warranties implied by law, including the implied warranties of merchantability and fitness are hereby limited to workmanship and defective parts to a period of (3) years for new equipment and 10 years for the heaters in said equipment and (3) years (for replacement infrared heaters) and (1) year (for replacement parts) after date of shipment to first buyer. The express warranty and remedies contained herein and such implied limited warranties are made solely to the sole warranties and remedies and are in lieu of all other warranties, guarantees, agreements, and other liabilities, whether express or implied, and all other remedies for breach of warranty or any other liability of seller, in no event shall seller be liable for consequential damages.

No person, agent, distributor, or service representative is authorized to change, modify or extend the terms hereof in any manner whatsoever.

These terms and conditions are an essential part of the transaction between the parties and constitute the entire agreement between them with respect to the same.

Some states do not allow limitation on how long an implied warranty lasts of the exclusion or limitation of incidental, or consequential damages, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Infrared heaters are the only replacement parts covered for a period of (3) years from date of shipment and contingent to receipt of payment in full.

Electrical components can not be returned once installed unless proven defective.

Please refer to doc. 01-01-006 for warranty implementation help.

Please refer to doc. 01-00-015 for specific terms and conditions of sale and the limited warranty.

Please refer to doc. 01-00-017 for V-2000HD printer warranty.

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VASTEX WARRANTY IMPLEMENTATION SHEET

Please read this document in order to fully understand the warranty.

Doc.# 01-00-006

Your new Vastex equipment is protected against *manufacturers' defects by our warranty, completely explained in doc# 01-00-017 for the V2000-HD series manual printer and in doc# 01-00-005 for all other Vastex manufactured equipment. Please refer to these documents for the **warranty term and specific concerns about the warranty. The following are some important facts and requirements for the proper implementation of the warranty.

1.0 Everything is covered!

2.0 **Warranty Term is defined as: Ship date from VASTEX to the date the item in question is returned to VASTEX for inspection and repair.

3.0 *Manufacturers defects are defined as: Parts determined to be defective in workmanship which will lead up to a premature failure. The determination will be made only by the manufacturer of the item in question.

4.0 To take advantage of the warranty the following steps must be taken:

4.1 The equipment must be paid for in full.

4.2 The item in question must be shipped to VASTEX for evaluation with all shipping costs incurred by the buyer.

4.3 If the item is deemed as a manufacturer's defect it will be repaired or replaced within 2 business days from the time received. The shipping cost back to the customer located in the continental United States will be paid by VASTEX if a warranty item.

4.4 **If the item in question must be replaced immediately and is more than a year old, it will have to be purchased at list price and will be shipped COD. A pro-rated credit will be given promptly if the returned item is a valid manufacturer's defect.**

4.5 If the equipment was shipped less than a year before the date of the service call and a technician confirms the part needed for repair, the replacement will be shipped before the replacement is shipped back. An RGA will be issued and must accompany the old part to VASTEX within 30 days or the account will be billed.

5.0 Important facts about the condition of shipped equipment:

5.1 Dryers are partially assembled with the belts tracked and the machine run at full temperature for a min. of 1 ½ hours.

5.2 Printers are partially assembled, inspected, and adjusted for all heads down prior to partial disassembly and packing.

5.3 Exposing units are fully assembled and tested with the maximum screen size for vacuum integrity, timer operation and light output.

6.0 This document is in addition to the standard warranty and only helps the customer understand how to take advantage of the warranty. In no way does this document override the standard warranty or the terms and conditions of sale and the limited warranty doc# 01-00-015.

Please see doc# 01-00-015 for specific terms and conditions of sale and the limited warranty

VASTEX
INTERNATIONAL

1032 N. IRVING ST.
ALLENTOWN PA. 18109 USA

Vastex International, Inc.

TERMS AND CONDITIONS OF SALE AND LIMITED WARRANTY Doc.#01-00-015

1. Buyer's order will constitute an offer in accordance with the terms hereof and such offer, upon acknowledgment of Seller, will constitute the agreement between Buyer and Seller. Buyer's order after such acknowledgment by Seller will not be subject to cancellation, change or reduction in amount, or suspension by Buyer of deliveries, unless prior to such action Buyer has obtained Seller's written consent. Notwithstanding anything to the contrary in Buyer's Purchase Order or other communications, the parties agree to be bound by these Terms and Conditions. Acceptance of the product by the Buyer shall be deemed to constitute unconditional acceptance of these Terms and Conditions.

2. Any of these terms, conditions and provisions of Buyer's order which are inconsistent with Seller's acknowledgment and these Terms and Conditions of Sale shall not be binding on the Seller and shall be considered not applicable to any sale so made. No waiver, alteration or modification of any of the provisions on either side of the document shall be binding upon Seller unless agreed to in writing by Seller.

3. (a) All prices are F.O.B. Seller's Plant and method of delivery and routing shall be at Seller's discretion, unless specifically otherwise stated herein. Notwithstanding any agreement to pay freight, delivery of products purchased hereunder to a common carrier or licensed trucker shall constitute delivery to Buyer and be determinative of the date and time of shipment and all risk of loss or damage in transit shall be borne by Buyer. If the Buyer fails to accept the goods from the common carrier or licensed trucker, the Seller shall be entitled to claim payment from the Buyer. Seller shall arrange for storage, the risk and the cost, including insurance costs, to be borne by the Buyer (and Buyer agrees to pay such amounts upon demand) except if the failure to accept delivery is due to any of the exceptions noted in Paragraph 4.

(b) Terms of payment shall be as stated on invoice.

4. It is understood that deliveries will be made in accordance with Seller's regular production schedule. Every reasonable effort will be made to meet the Buyer's required delivery dates but Seller will not be liable for damages or be deemed to be in default by reason of any failure to deliver or delay in delivery due to any preference, priority, allocation or allotment order issued by the Government, whether Federal, State or local, or causes beyond its control including but not limited to, Acts of God or a public enemy, acts of Government, fires, floods, epidemics, quarantine restrictions, strikes, lockouts, freight embargoes, severe weather, unavailability of materials or shipping space, delays of carriers or suppliers or delays of any subcontractors. Should delay in delivery be caused by any of the circumstances mentioned in this paragraph, such extension of the delivery period shall be granted as is reasonable under the circumstances of the case. Should delay be caused by an event not specifically mentioned in this paragraph, damages will be limited to cancellation of the purchase order without penalty, and refund of any monies deposited or prepaid on the purchase order with no liability for any consequential or incidental damages.

5. Seller reserves the right to increase the prices prior to Seller's acceptance of order and/or after expiration of any price quoted by Seller.

6. Unless otherwise stated in writing, Seller's prices do not include sales, excise, value-added or other taxes. Consequently, in addition to the price specified herein, the amount of any present or future sales, use, excise, value-added or other tax applicable to the manufacture, sale, purchase or use of the products hereunder shall be paid by Buyer, or in lieu thereof, Buyer shall provide Seller with a valid tax exemption certificate acceptable to the taxing authorities.

7. Seller reserves the right, at any time, to revoke any credit extended to Buyer because of Buyer's failure to pay for any products when due or for any other reason deemed good and sufficient by Seller and in such event, all subsequent shipments shall be paid for prior to at delivery at Seller's option.

8. (a) SELLER'S LIABILITY SHALL BE LIMITED TO SELLER'S STATED SELLING PRICE PER UNIT OF ANY DEFECTIVE GOODS AND SHALL IN NO EVENT INCLUDE BUYER'S MANUFACTURING COSTS, LOST PROFITS, GOODWILL, OR ANY OTHER SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, ARISING OUT OF THE AGREEMENT, THIS CONTRACT, THE SALE OF THE PRODUCTS TO THE BUYER OR THE USE OR THE PERFORMANCE OF THE PRODUCTS. Seller may at its discretion repair, replace or give the Buyer credit (pro-rated) for such defective products.

(b) Notwithstanding anything herein to the contrary, Seller shall have no liability for alleged defects with the products which are not specified in written notice from the Buyer to the Seller within thirty-six (36) months from the date of shipment of machines. Seller shall pass to Buyer any warranty received by Seller from the manufacturer of Limited Life Components, which in most cases is 12 to 18 months.

(c) Seller shall have no liability under this Limited Warranty unless Buyer has paid in full for the products. Further, this Limited Warranty is expressly contingent on Buyer's delivery to Seller, all costs prepaid, the defective part(s) within thirty-six (36) months of shipment to Buyer, together with a written statement specifying the alleged defect(s). Any replacement part(s) shall be shipped to Buyer on a C.O.D. basis.

(d) SELLER SPECIFICALLY EXCLUDES ALL WARRANTIES, EXPRESSED, IMPLIED OR OTHERWISE, EXCEPT AS STATED EXPLICITLY IN THESE TERMS AND CONDITIONS OF SALE. SELLER DISCLAIMS THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

9. The remedies herein reserved by Seller shall be cumulative and in addition to any other legal remedies. No waiver of a breach of any portion of this contract shall constitute a waiver of continuing or future breach of such provision or of any other provisions hereof.

10. These Terms and Conditions constitute the entire agreement of the parties. No amendments, changes, revisions or discharges hereof in whole or in part shall have any force or effect unless set forth in writing and signed by the parties hereto. This contract shall not be assignable by Buyer voluntarily by operation of law or otherwise without Seller's written consent.

11. This contract shall be governed and shall be construed according to the domestic laws of the Commonwealth of Pennsylvania.

12. Anything herein to the contrary notwithstanding, any action for alleged breach by Seller of the contract between the parties, including but not limited to any action for breach of the warranties herein set forth, shall be barred unless commenced by Buyer within one (1) year from the date such cause of action accrued.

13. This agreement shall inure to the benefit of and be binding upon the parties hereto, their respective successors and permitted assigns.

14. **All notices required by this contract to be given by either party shall be sent in writing or by facsimile and shall be addressed to the last known address of such other party. Notices shall be deemed to have been received on the fifth business day following deposit in the mail.**